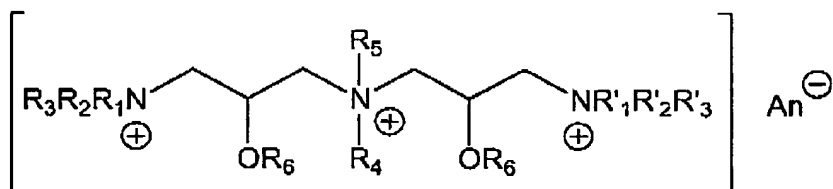


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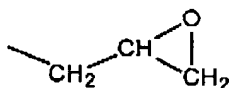
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CLAIMS

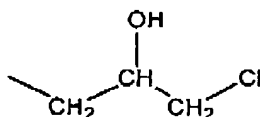
1. (Currently amended) A compound of the formula



wherein each R_1 , R'_1 , R_2 , R'_2 , R_3 , R'_3 , R_4 or R_5 is independently selected from the group consisting of alkyl, aryl, aralkyl and $-\text{CH}_2\text{---CH}(\text{OR}_6)\text{---CH}_2\text{N}^+\text{R}_1\text{R}_2\text{R}_3 \text{An}^-$, wherein any R_1 , R_2 or R_3 group may be the same or different than other R_1 , R'_1 , R_2 , R'_2 , R_3 or R'_3 groups, and wherein each R_6 can be independently selected from the group consisting of H, alkyl and aralkyl, a 2,3-epoxypropyl group having the structure: one or more R_6 group is selected from the group consisting of:



and a 3-chloro-2-hydroxypropyl group having the structure:



and wherein An^- is an anion, provided that at least one of the R_6 groups is the 2,3-epoxypropyl group or the 3-chloro-2-hydroxypropyl group.

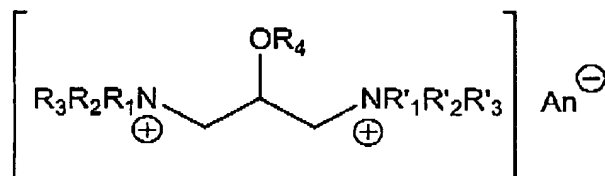
2. (Original) The compound of claim 1, wherein one R_1 group and the R_4 group comprise a single alkyl group having one or more carbons, and wherein the alkyl group

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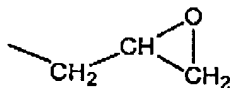
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forms part of a cyclic structure that further comprises two positively charged nitrogen centers separated by a three-carbon fragment bearing an -OR₄ group.

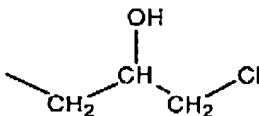
3. (Currently amended) A compound of the formula



wherein each R₁, R'₁, R₂, R'₂, R₃ or R'₃ group is independently selected from the group consisting of alkyl, aryl, aralkyl and -CH₂-CH(OR₄)-CH₂N⁺R₁R₂R₃ An⁻, wherein any R₁, R₂ or R₃ group may be the same or different than other R₁, R'₁, R₂, R'₂, R₃ or R'₃ groups, and wherein each R₄ can be independently selected from the group consisting of H, alkyl and aralkyl, a 2,3-epoxypropyl group having the structure: one or more R₄ group is selected from the group consisting of:



and a 3-chloro-2-hydroxypropyl group having the structure:



and wherein An⁻ is an anion, provided that at least one of the R₄ groups is the 2,3-epoxypropyl group or the 3-chloro-2-hydroxypropyl group.

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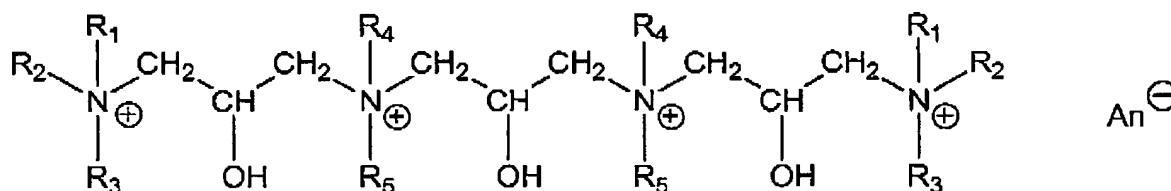
4. (Original) The compound of claim 3, wherein the R_1 and R'_1 groups comprise a single alkyl group having one or more carbons, and wherein said alkyl group forms part of a cyclic structure that further comprises two positively charged nitrogen centers separated by a three-carbon fragment bearing an $-OR_4$ group.
5. (Original) The compound of claim 3 wherein the one or more R_4 groups is a 2,3-epoxypropyl group.
6. (Original) A modified carbohydrate formed by the reaction of:
the compound of claims 1,2,3,4 or 5; and
a carbohydrate having one or more hydroxyl groups.
7. (Original) The modified carbohydrate of claim 6 wherein the carbohydrate is a starch.
8. (Cancelled)
9. (Currently amended) ~~The method of using the compound of claims 1, 2, 3, 4 or 5 to make~~ A method of making a modified carbohydrate comprising reacting the compound of any one of claims 1, 2, 3, 4 or 5 with a carbohydrate.
10. (Currently amended) ~~The method of using~~ A method of waste water treatment comprising adding the modified carbohydrate of claim 6 ~~as to~~ a waste water treatment agent.
11. (Currently amended) ~~The method of using the modified carbohydrate of claim 6 in a papermaking process~~ claim 9 wherein the carbohydrate is a starch.

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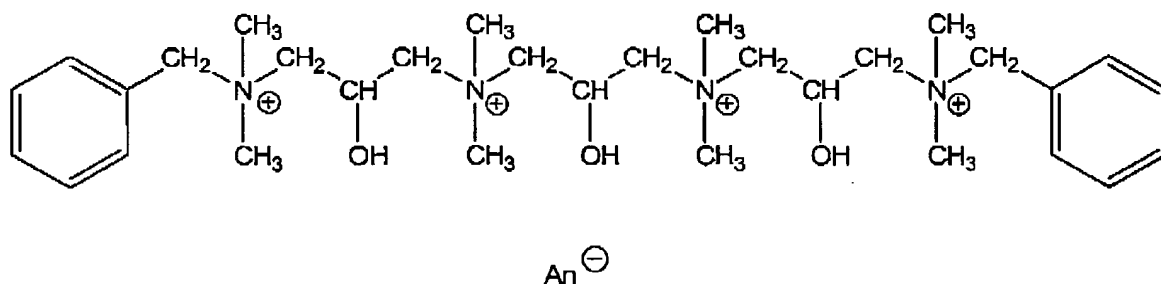
12. (New) The compound of claim 1 wherein at least one of the one or more R_6 groups is a 2,3-epoxypropyl group.

13. (New) A compound having the structure:



wherein each R_1 , R_2 , R_3 , R_4 and R_5 group may be independently selected from the group consisting of alkyl, aryl, aralkyl and An^- may be one or more organic or inorganic, monovalent or polyvalent anion as needed to obtain a neutral compound.

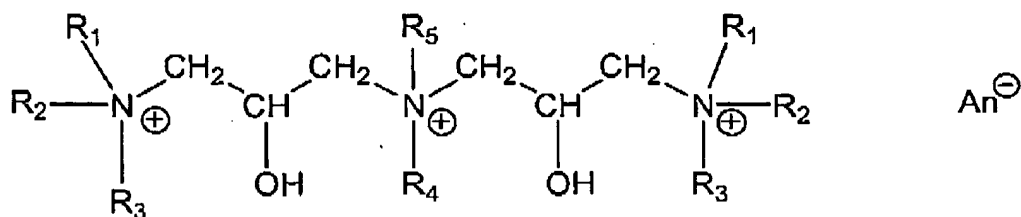
14. (New) The compound of claim 13, having the structure:



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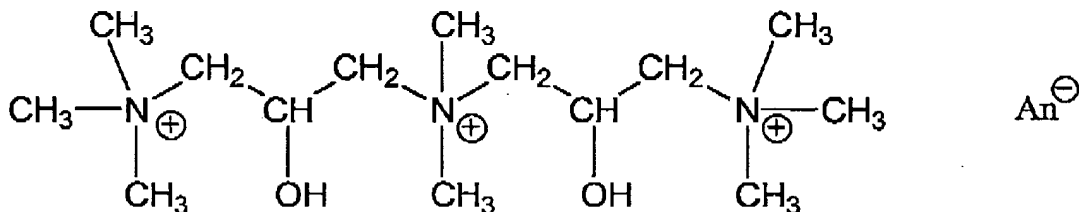
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15. (New) A compound having the structure:



wherein each R_1 , R_2 , R_3 , R_4 and R_5 group may be independently selected from the group consisting of alkyl, aryl, aralkyl and An^- may be one or more organic or inorganic, monovalent or polyvalent anion as needed to obtain a neutral compound.

16. (New) The compound of claim 15, having the structure:



17. (New) The compound of claim 15, having the structure:

